

**Notice of Allowability**

Application No.

10/693,090

Applicant(s)

KRISHNAN ET AL.

Examiner

Cam Y T. Truong

Art Unit

2162

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/10/2006.
2. ☒ The allowed claim(s) is/are 1-3, 7, 8 and 10-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance              |
|   | 9. <input type="checkbox"/> Other _____   |

**DETAILED ACTION**

1. Claims 1-31 are pending in this Office Action.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Carlos Garritano on 2/3/2006.

In the claims:

Please replace claims 1, 14, 16, 18, 21, 22 and 29 with amended claims 1, 14, 16, 18, 21, 22 and 29.

Please delete claims 4-6, 9 and 31.

1. (Currently amended) A computer implemented file transformation system including a processor, comprising:

a file having with one or more unstructured properties;

an item having one or more structured properties, the item being a structured object representation of the file;

a file property manager facilitates communications between applications working with an unstructured byte stream and applications working with the structured object representation of the file, the file property manager receives a notification of the unstructured byte stream of the file having been modified and calls a file property handler with a pointer to the byte stream of the file to be promoted; and

the file property handler manipulates at least one of the following: a transformation in order to demote the one or more unstructured properties based on changes to the structured properties and a transformation in order to promote the structured properties based on changes to the unstructured properties;

the file property handler facilitates the promotion when a file application programming interface (API) based application modifies the unstructured properties by updating the unstructured byte stream for a structured object store item, the structured object store item being a file-backed item;

the file property handler performs at least one of the following: storing the demoted one or more unstructured properties and storing the promoted structured properties.

14. (Currently amended) A computer implemented system including a processor to facilitate data transformation, comprising:

means for exposing unstructured file properties to a structured store application, the unstructured file properties are related to a file that is an unstructured byte stream;

means for facilitating communications between applications working with the unstructured file properties and applications working with a structured object representation of the file;

means for receiving a notification that the unstructured byte stream of the file has been modified;

means for calling a file property handler for the file with a pointer to the unstructured byte stream of the file to be promoted;

means for transforming the unstructured file properties into structured item properties associated with the structured store application, the structured item properties are related to an item being the structured object representation of the file;

means for facilitating a promotion operation when a file application programming interface (API) based application modifies the unstructured properties by updating the unstructured byte stream for a structured object store item, the structured object store item being a file-backed item;

means for updating the structured item properties in the structured store application; and means for storing the updated structured item properties.

16. (Currently amended) A computer implemented method to facilitate data item transformation, comprising:

- performing communications between applications working with an unstructured property file stream and applications working with a structured object representation of a file;

- modifying the file associated with one or more unstructured properties in a structured store namespace *via* utilizing a file application programming interface (API) based application;

- receiving a notification related to the modification of the unstructured property file stream of the file;

- calling a file property handler for the file with a pointer corresponding to the modified unstructured property file stream to perform a promotion;

- performing a promotion operation when a file application programming interface (API) based application modifies the unstructured properties by updating the file stream for a structured object store item, the structured object store item being a file-backed item;

- promoting one or more unstructured properties associated with the file to accordingly update structured properties associated with an item that is associated with the structured store namespace, the item is a structured object representation of the file in an object store; and

- storing the updated structured properties .

18 (Currently amended) The method of claim 16, further comprising registering a file property handler to facilitate promoting the one or more unstructured properties or demoting the one or more structured properties.

21. (Currently amended) The method of claim 16, further comprising morphing an item's structure or changing an item structure.

22. (Currently amended) The method of claim 16, further comprising automatically extracting the one or more unstructured properties and updating an item.

29. (Currently amended) The method of claim 17, further comprising reading changes from an item and updating unstructured file properties.

***Allowable Subject Matter***

6. Claims 1-3, 7-8, 10-30 are allowed.

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 1 and 13, wherein “the file property handler manipulates at least one of the following: a transformation in order to demote the one or more unstructured properties based on changes to the structured properties and a transformation in order to promote the structured properties based on changes to the unstructured properties; the file property handler facilitates the promotion when a file application programming interface (API) based application modifies the unstructured properties by updating the unstructured byte stream for a structured object store item, the structured object store item being a file-backed item”; The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 14, wherein “means for calling a file property handler for the file with a pointer to the unstructured byte stream of the file to be promoted; means for transforming the unstructured file properties into structured item properties associated with the structured store application, the structured item properties are related to an item being the structured object representation of the file; means for facilitating a promotion operation when a file application programming interface (API) based application modifies the unstructured properties by updating the

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unstructured byte stream for a structured object store item, the structured object store item being a file-backed item”; and

The prior art of record, alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 16, wherein “performing a promotion operation when a file application programming interface (API) based application modifies the unstructured properties by updating the file stream for a structured object store item, the structured object store item being a file-backed item; promoting one or more unstructured properties associated with the file to accordingly update structured properties associated with an item that is associated with the structured store namespace, the item is a structured object representation of the file in an object store”.

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.



### **Contact Information**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T. Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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Patent Examiner  
Art Unit 2162  
2/2/2006